

Q27 and comparing the detectable signal generated in the presence and absence of a test compound, to thereby identify said test compound as a modulator of quorum sensing signaling in bacteria.

Q28 3. (Amended) The method of claim 1 or 75, wherein said gene that generates a detectable signal comprises a reporter gene that is heterologous to said regulatory sequence.

4. (Amended) The method of claim 3, wherein said detectable signal is provided by the transcription of said reporter gene or the translation product of said reporter gene.

Q29 7. (Amended) The method of claim 1 or 75, wherein said cell does not express said quorum sensing signal molecule.

Q30 9. (Amended) The method of claim 75, wherein said cell is a prokaryote or eukaryote.

Q31 17. (Amended) The method of claim 1 or 75, wherein said quorum sensing controlled gene is endogenous to said cell.

Q32 21. (Amended) The method of claim 1 or 75, wherein said quorum sensing signal molecule is an autoinducer of said quorum sensing controlled gene.

24. (Amended) The method of claim 1 or 75, wherein the test compound modulates quorum sensing signaling by inhibiting a bacterial enzyme involved in the synthesis of said quorum sensing signal molecule.

Q33 25. (Amended) The method of claim 1 or 75, wherein the test compound modulates quorum sensing signaling by inhibiting bacterial reception of said quorum sensing signal molecule.

26. (Amended) The method of claim 1 or 75, wherein the test compound modulates quorum sensing signaling by scavenging said quorum sensing signal molecule.

Please add new claim 75 as follows:

75. (New) A method for identifying a modulator of quorum sensing signaling in bacteria, said method comprising:

providing a cell which comprises a quorum sensing controlled gene wherein said quorum sensing controlled gene comprises a nucleotide sequence selected from the group consisting of SEQ ID NO:1, SEQ ID NO:2, SEQ ID NO:3, SEQ ID NO:4, SEQ ID NO:5, SEQ ID NO:6, SEQ ID NO:7, SEQ ID NO:8, SEQ ID NO:9, SEQ ID NO:10, SEQ ID NO:11, SEQ ID NO:12, SEQ ID NO:13, SEQ ID NO:14, SEQ ID NO:15, SEQ ID NO:16, SEQ ID NO:17, SEQ ID NO:18, SEQ ID NO:19, SEQ ID NO:20, SEQ ID NO:21, SEQ ID NO:22, SEQ ID NO:23, SEQ ID NO:24, SEQ ID NO:25, SEQ ID NO:26, SEQ ID NO:27, SEQ ID NO:28, SEQ ID NO:29, SEQ ID NO:30, SEQ ID NO:31, SEQ ID NO:32, SEQ ID NO:33, SEQ ID NO:34, SEQ ID NO:35 and SEQ ID NO:36, operatively linked to a gene that generates a detectable signal in response to a quorum sensing signal molecule;

contacting said cell with a quorum sensing signal molecule in the presence and absence of a test compound;

and comparing the detectable signal generated in the presence and absence of a test compound to thereby identify said test compound as a modulator of quorum sensing signaling in bacteria.